



BUILDER[™]
3D Printers B.V.



Discover new opportunities with the **Builder Extreme 2000 PRO** - our most advanced large scale 3D printer yet.

The Extreme 2000 PRO takes large scale 3D printing to the more professional level. With its giant build volume of 700x700x1700 mm (XYZ), it is one of the tallest FDM 3D printers available on the market. The height makes it ideal for professional and industrial use and printing of high quality industrial grade parts, time after time.

Unique design

The Extreme 2000 PRO has been designed efficiently to be able to offer place to all its key features without sacrificing print volume. Despite its huge build area, the Extreme 2000 PRO is optimal for all workspaces. The filament spools and control box are integrated in the closed housing and will open for easy access, when slightly pushing the panels. The 7-inch touch screen is ergonomically placed at a comfortable to use level.

Versatile Dual-Feed extruder

The Dual-Feed extruder has been developed in-house and has only one nozzle. Nevertheless, the machine prints mono-material objects, but also duo-material or multi-coloured print jobs, such as PLA with PVA. The extruder comes with a set of easy to swap nozzles of three different diameters, to influence print quality and printing time:

- 0.4 mm nozzle
- 0.8 mm nozzle
- 1.2 mm nozzle *



- (0.1 - 0.3 mm layer height)
- (0.4 - 0.7 mm layer height)
- (0.8 - 1.0 mm layer height)

* experimental

Printing extremely large parts? Use both extruders in 50% and print with 2 x 4.5 kg spools. By printing two spools at once (9 kg in total), the print quality will improve and the filament needs to be changed rarely, which reduces print time.



Effortless operation - 7-inch touch screen

The responsive, full-colour touch screen makes operating the Builder Extreme easy and effortless. The touch screen allows you to have full adjustment control over the 3D printed part and Builder Extreme. From print speed, temperature to changing filaments - most of the parameters can be changed on the screen. The printer comes also with useful instruction videos about the machine operation and maintenance. Lock the screen with your personal code for safety reasons.

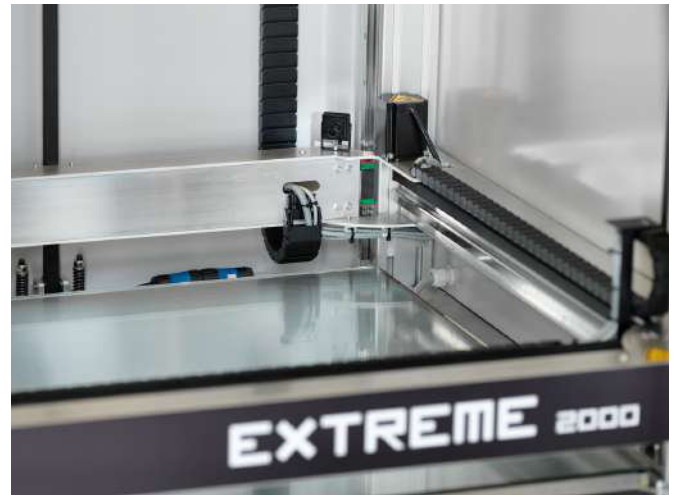
Fully-closed housing

The fully closed housing, together with the heated bed, positively influences the quality of the printed object and also reduces the sound of the machine by 40%. The transparent doors allow you to monitor the printing process at all times. For safety reasons the doors can only be opened when the print is paused. Press the door logo on the touch screen and the doors will automatically open. The Extreme 2000 PRO is ready to incorporate a BOFA air filter, which reduces the occupational risks connected to the gaseous nanoparticles emission associated with melting plastics.



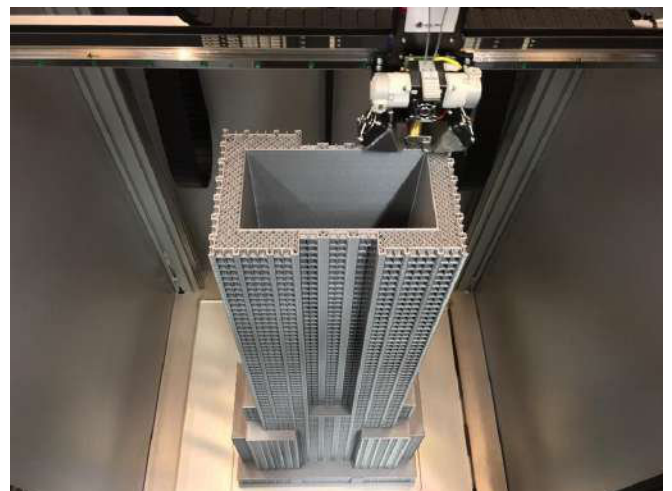
Features that make large scale 3D printing trouble-free

The Builder Extreme comes with an integrated UPS system that resumes the operation after a power cut. When a power failure occurred, the current status will be saved and as soon as the power comes back, you can resume the print. The filament detection kicks in when the machine is running out of filament. After refilling the new spool, you can finish the print job. This also allows you to fully use each spool to reduce leftovers on bigger spools.



Slicing software

Slicing software is just as important as the 3D printer itself. That is why the Builder Extreme comes with Simplify3D, which is the ideal slicing software for large scale 3D prints. To make a start hassle-free, we already optimised the settings for the different nozzle diameters so you can start printing as soon as the 3D printer arrives.





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| Key facts | Operating volume Print speed Layer height resolution Unique features | 700 x 700 x 1700 mm (XYZ) Up to 120 mm/s 0.1 – 0.9 mm Filament detection system Uninterruptible power supply Interchangeable easy-to-swap nozzles Safety door-locking system |
| General specifications | Outside dimensions Shipping dimensions Weight Power rating UPS system | 134 x 105 x 224 cm 142 x 110 x 237 cm 250 kg 1400 W Resumes after power outage |
| Printing process | Technology Print head Print speed Travel speed Build plate Heated bed Levelling Feeder type Nozzle diameter | Fused deposition modelling (FDM/FFF) Mono- or Dual-Feed extruder Up to 120 mm/s Up to 200 mm/s Heated glass build plate Up to 60°C Semi-automatic (auto-levelling expected Q4 of 2019) Direct drive 0.4 / 0.8 / 1.2 mm |
| Control | Connectivity Display On-board camera Supplied software | Wi-Fi, USB port, Ethernet 7-inch full colour touch screen Live view from desktop or mobile devices Simplify3D® |
| Filaments | Filament diameter Filament detection Materials | 1.75 mm Yes PLA, PET, PVA, PRO1 (ABS replacement), Flexible filaments |



All specifications might be subjected to changes.



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